

Worksheet – Adding and Subtracting Non-Variable Radical Expressions Containing Square Roots

Directions: Please simplify the following. Express your answers with exact numbers.

1. $3\sqrt{7} - 4\sqrt{7}$

2. $7\sqrt{6} - 9\sqrt{6} + \sqrt{6}$

3. $-25\sqrt{5} - 4\sqrt{7} + \sqrt{5} - 2\sqrt{7}$

4. $-8\sqrt{22} - 9 + 10\sqrt{22}$

5. $6\sqrt{8} - 4\sqrt{8}$

6. $10\sqrt{12} - 11\sqrt{6} + 7\sqrt{12}$

7. $11\sqrt{3} - 4\sqrt{12} + \sqrt{3}$

8. $\sqrt{48} - \sqrt{75} + \sqrt{8}$

9. $-\sqrt{5} - 4\sqrt{50} - \sqrt{5}$

10. $-2\sqrt{3} + \sqrt{27}$

11. $5\sqrt{6} - 4\sqrt{54}$

12. $3\sqrt{6} - 7\sqrt{24} + \sqrt{6}$

13. $\sqrt{5} - \sqrt{45} + \sqrt{6} - 2\sqrt{150}$

14. $5\sqrt{18} - 6\sqrt{45} + \sqrt{5}$

15. $-\sqrt{14} + \sqrt{10} + 3\sqrt{10} - \sqrt{14}$

16. $\sqrt{96} - \sqrt{24} + \sqrt{54}$

17. $25\sqrt{12} - 4\sqrt{108} + \sqrt{29}$

18. $25\sqrt{5} - 4\sqrt{7} + \sqrt{5} - 2\sqrt{7}$

19. $-\sqrt{10} - 4 - 2\sqrt{90} - 2$

20. $\sqrt{56} - \sqrt{14} - \sqrt{126}$